Fig. 1

```
        I-ORF3-->                              I-ORF2-->
        5110v     5120v     5130v     5140v     5150v     5160v
-BURMA  TGGAATGAATAACATGTCTTTTGCTGCGCCCATGGGTTCGCGACCATGCGCCCTCGGCCT
        GAATGAATAACATGT  TTTGCTGCGCCCATGGGTTCGC ACCATGCGCCCT GGCCT
-MEXICO CTGAATGAATAACATGTGGTTTGCTGCGCCCATGGGTTCGCCACCATGCGCCCTAGGCCT


        5170v     5180v     5190v     5200v     5210v     5220v
-BURMA  ATTTTGTTGCTGCTCCTCATGTTTTTGCCTATGCTGCCCGCGCCACCGCCCGGTCAGCCG
        TTTTG TG TG TCCTC TGTTT TGCCTATG TGCCCGCGCCACCG CCGGTCAGCCG
-MEXICO CTTTTGCTGTTGTTCCTCTTGTTTCTGCCTATGTTGCCCGCGCCACCGACCGGTCAGCCG


        5230v     5240v     5250v     5260v     5270v     5280v
-BURMA  TCTGGCCGCCGTCGTGGGCGGCGCAGCGGCGGTTCCGGCGGTGGTTTCTGGGGTGACCGG
        TCTGGCCGCCGTCGTGGGCGGCGCAGCGGCGGT CCGGCGGTGGTTTCTGGGGTGACCGG
-MEXICO TCTGGCCGCCGTCGTGGGCGGCGCAGCGGCGGTACCGGCGGTGGTTTCTGGGGTGACCGG


        5290v     5300v     5310v     5320v     5330v     5340v
-BURMA  GTTGATTCTCAGCCCTTCGCAATCCCCTATATTCATCCAACCAACCCCTTCGCCCCCGAT
        GTTGATTCTCAGCCCTTCGCAATCCCCTATATTCATCCAACCAACCCCTT GCCCC GA
-MEXICO GTTGATTCTCAGCCCTTCGCAATCCCCTATATTCATCCAACCAACCCCTTTGCCCCAGAC


                                        I-406.4-2-->
        5350v     5360v     5370v     5380v     5390v     5400v
-BURMA  GTCACCGCTGCGGCCGGGGCTGGACCTCGTGTTCGCCAACCCGCCCGACCACTCGGCTCC
        GT  CCGCTGCG CCGGG CTGGACCTCG  TTCGCCAACC GCCCG CCACT GGCTCC
-MEXICO GTTGCCGCTGCGTCCGGGTCTGGACCTCGCCTTCGCCAACCAGCCCGGCCACTTGGCTCC


        5410v     5420v     5430v     5440v     5450v     5460v
-BURMA  GCTTGGCGTGACCAGGCCCAGCGCCCCGCCGTTGCCTCACGTCGTAGACCTACCACAGCT
        CTTGGCG GA CAGGCCCAGCGCCCC CCG TGCCTC CGTCG  GACCT CCACAGC
-MEXICO ACTTGGCGAGATCAGGCCCAGCGCCCCTCCGCTGCCTCCCGTCGCCGACCTGCCACAGCC


        <--406.4-2-I
          <-ORF3--I
        5470v     5480v     5490v     5500v     5510v     5520v
-BURMA  GGGGCCGCGCCGCTAACCGCGGTCGCTCCGGCCCATGACACCCCGCCAGTGCCTGATGTC
        GGGGC CGG CGCT AC GC GT GC CC GCCCATGACACC C CC GT CC GA GT
-MEXICO GGGGCTGCGGCGCTGACGGCTGTGGCGCCTGCCCATGACACCTCACCCGTCCCGGACGTT


        5530v     5540v     5550v     5560v     5570v     5580v
-BURMA  GACTCCCGCGGCGCCATCTTGCGCCGGCAGTATAACCTATCAACATCTCCCCTTACCTCT
        GA TC CGCGG GC AT  T CGCCG CAGTATAA  T TC AC TC CCCCT AC TC
-MEXICO GATTCTCGCGGTGCAATTCTACGCCGCCAGTATAATTTGTCTACTTCACCCCTGACATCC


        5590v     5600v     5610v     5620v     5630v     5640v
-BURMA  TCCGTGGCCACCGGCACTAACCTGGTTCTTTATGCCGCCCCTCTTAGTCCGCTTTTACCC
        TC GTGGCC C GGCACTAA  T GT CT TATGC GCCCC CTTA TCCGC T T CC
-MEXICO TCTGTGGCCTCTGGCACTAATTTAGTCCTGTATGCAGCCCCCCTTAATCCGCCTCTGCCG
```

Fig. 2A

```
              5650v      5660v      5670v      5680v      5690v      5700v
-BURMA   CTTCAGGACGGCACCAATACCCATATAATGGCCACGGAAGCTTCTAATTATGCCCAGTAC
         CT CAGGACGG AC AATAC CA AT ATGGCCAC GA GC TC AATTATGC CAGTAC
-MEXICO  CTGCAGGACGGTACTAATACTCACATTATGGCCACAGAGGCCTCCAATTATGCACAGTAC

              5710v      5720v      5730v      5740v      5750v      5760v
-BURMA   CGGGTTGCCCGTGCCACAATCCGTTACCGCCCGCTGGTCCCCAATGCTGTCGGCGGTTAC
         CGGGTTGCCCG GC AC ATCCGTTACCG CC CT GT CC AATGC GT GG GG TA
-MEXICO  CGGGTTGCCCGCGCTACTATCCGTTACCGGCCCCTAGTGCCTAATGCAGTTGGAGGCTAT

                                                        trpE-(C2) I->
              5770v      5780v      5790v      5800v      5810v      5820v
-BURMA   GCCATCTCCATCTCATTCTGGCCACAGACCACCACCACCCCGACGTCCGTTGATATGAAT
         GC AT TCCAT TC TTCTGGCC CA AC ACCAC ACCCC AC TC GTTGA ATGAAT
-MEXICO  GCTATATCCATTTCTTTCTGGCCTCAAACAACCACAACCCCTACATCTGTTGACATGAAT

              5830v      5840v      5850v      5860v      5870v      5880v
-BURMA   TCAATAACCTCGACGGATGTTCGTATTTTAGTCCAGCCCGGCATAGCCTCTGAGCTTGTG
         TC AT AC TC AC GATGT  G ATT T GT CA CC GGCATAGC TCTGA  T GT
-MEXICO  TCCATTACTTCCACTGATGTCAGGATTCTTGTTCAACCTGGCATAGCATCTGAATTGGTC

              5890v      5900v      5910v      5920v      5930v      5940v
-BURMA   ATCCCAAGTGAGCGCCTACACTATCGTAACCAAGGCTGGCGCTCCGTCGAGACCTCTGGG
         ATCCCAAG GAGCGCCT CACTA CG AA CAAGG TGGCGCTC GT GAGAC TCTGG
-MEXICO  ATCCCAAGCGAGCGCCTTCACTACCGCAATCAAGGTTGGCGCTCGGTTGAGACATCTGGT

              5950v      5960v      5970v      5980v      5990v      6000v
-BURMA   GTGGCTGAGGAGGAGGCTACCTCTGGTCTTGTTATGCTTTGCATACATGGCTCACTCGTA
         GT GCTGAGGAGGA GC ACCTC GGTCTTGT ATG T TGCATACATGGCTC C  GT
-MEXICO  GTTGCTGAGGAGGAAGCCACCTCCGGTCTTGTCATGTTATGCATACATGGCTCTCCAGTT

              6010v      6020v      6030v      6040v      6050v      6060v
-BURMA   AATTCCTATACTAATACACCCTATACCGGTGCCCTCGGGCTGTTGGACTTTGCCCTTGAG
         AA TCCTATAC AATAC CC TATACCGGTGCCCT GG  T  TGGACTTTGCC T GAG
-MEXICO  AACTCCTATACCAATACCCCTTATACCGGTGCCCTTGGCTTACTGGACTTTGCCTTAGAG

              6070v      6080v      6090v      6100v      6110v      6120v
-BURMA   CTTGAGTTTCGCAACCTTACCCCCGGTAACACCAATACGCGGGTCTCCCGTTATTCCAGC
         CTTGAGTTTCGCAA CT ACC CC GTAACACCAATAC CG GT TCCCGTTA TCCAGC
-MEXICO  CTTGAGTTTCGCAATCTCACCACCTGTAACACCAATACACGTGTGTCCCGTTACTCCAGC

                       I-SG3-->
              6130v      6140v      6150v      6160v      6170v      6180v
-BURMA   ACTGCTCGCCACCGCCTTCGTCGCGGTGCGGACGGGACTGCCGAGCTCACCACCACGGCT
         ACTGCTCG CAC C  CG G G       DACGGGACTGC GAGCT ACCAC AC GC
-MEXICO  ACTGCTCGTCACTCCGCCCGAGGGGCC---GACGGGACTGCGGAGCTGACCACAACTGCA
```

Fig. 2B

```
              6190v      6200v      6210v      6220v      6230v      6240v
-BURMA    GCTACCCGCTTTATGAAGGACCTCTATTTTACTAGTACTAATGGTGTCGGTGAGATCGGC
          GC ACC G TT ATGAA GA CTC A TTTAC G    TAATGG GT GGTGA  TCGGC
-MEXICO   GCCACCAGGTTCATGAAAGATCTCCACTTTACCGGCCTTAATGGGGTAGGTGAAGTCGGC


              6250v      6260v      6270v      6280v      6290v      6300v
-BURMA    CGCGGGATAGCCCTCACCCTGTTCAACCTTGCTGACACTCTGCTTGGCGGCCTGCCGACA
          CGCGGGATAGC CT AC  T  T AACCTTGCTGACAC CT CT GGCGG CT CCGACA
-MEXICO   CGCGGGATAGCTCTAACATTACTTAACCTTGCTGACACGCTCCTCGGCGGGCTCCCGACA


              6310v      6320v      6330v      6340v      6350v      6360v
-BURMA    GAATTGATTTCGTCGGCTGGTGGCCAGCTGTTCTACTCCCGTCCCGTTGTCTCAGCCAAT
          GAATT ATTTCGTCGGCTGG GG CA CTGTT TA TCCCG CC GTTGTCTCAGCCAAT
-MEXICO   GAATTAATTTCGTCGGCTGGCGGGCAACTGTTTTATTCCCGCCCGGTTGTCTCAGCCAAT


              6370v      6380v      6390v      6400v      6410v      6420v
-BURMA    GGCGAGCCGACTGTTAAGTTGTATACATCTGTAGAGAATGCTCAGCAGGATAAGGGTATT
          GGCGAGCC AC GT AAG T TATACATC GT GAGAATGCTCAGCAGGATAAGGGT TT
-MEXICO   GGCGAGCCAACCGTGAAGCTCTATACATCAGTGGAGAATGCTCAGCAGGATAAGGGTGTT


              6430v      6440v      6450v      6460v      6470v      6480v
-BURMA    GCAATCCCGCATGACATTGACCTCGGAGAATCTCGTGTGGTTATTCAGGATTATGATAAC
          GC ATCCC CA GA AT GA CT GG GA TC CGTGTGGT ATTCAGGATTATGA AAC
-MEXICO   GCTATCCCCCACGATATCGATCTTGGTGATTCGCGTGTGGTCATTCAGGATTATGACAAC


              6490v      6500v      6510v      6520v      6530v      6540v
-BURMA    CAACATGAACAAGATCGGCCGACGCCTTCTCCAGCCCCATCGCGCCCTTTCTCTGTCCTT
          CA CATGA CA GATCGGCC AC CC TC CC GC CCATC CG CCTTT TCTGT CT
-MEXICO   CAGCATGAGCAGGATCGGCCCACCCCGTCGCCTGCGCCATCTCGGCCTTTTTCTGTTCTC


              6550v      6560v      6570v      6580v      6590v      6600v
-BURMA    CGAGCTAATGATGTGCTTTGGCTCTCTCTCACCGCTGCCGAGTATGACCAGTCCACTTAT
          CGAGC AATGATGT CTTTGGCT TC CTCAC GC GCCGAGTATGACCAGTCCACTTA
-MEXICO   CGAGCAAATGATGTACTTTGGCTGTCCCTCACTGCAGCCGAGTATGACCAGTCCACTTAC


              6610v      6620v      6630v      6640v      6650v      6660v
-BURMA    GGCTCTTCGACTGGCCCAGTTTATGTTTCTGACTCTGTGACCTTGGTTAATGTTGCGACC
          GG TC TC ACTGGCCC GTTTAT T TC GAC   GTGAC TTGGT AATGTTGCGAC
-MEXICO   GGGTCGTCAACTGGCCCGGTTTATATCTCGGACAGCGTGACTTTGGTGAATGTTGCGACT


              6670v      6680v      6690v      6700v      6710v      6720v
-BURMA    GGCGCGCAGGCCGTTGCCCGGTCGCTCGATTGGACCAAGGTCACACTTGACGGTCGCCCC
          GGCGCGCAGGCCGT GCCCG TCGCT GA TGG CCAA GTCAC CT GACGG CG CCC
-MEXICO   GGCGCGCAGGCCGTAGCCCGATCGCTTGACTGGTCCAAAGTCACCCTCGACGGGCGGCCC


              6730v      6740v      6750v      6760v      6770v      6780v
-BURMA    CTCTCCACCATCCAGCAGTACTCGAAGACCTTCTTTGTCCTGCCGCTCCGCGGTAAGCTC
          CTC C AC  T  AGCA TA TC AAGAC TTCTTTGT CT CC CT CG GG AAGCTC
-MEXICO   CTCCCGACTGTTGAGCAATATTCCAAGACATTCTTTGTGCTCCCCCTTCGTGGCAAGCTC
```

Fig. 2C

```
              6790v      6800v      6810v      6820v      6830v      6840v
-BURMA  TCTTTCTGGGAGGCAGGCACAACTAAAGCCGGGTACCCTTATAATTATAACACCACTGCT
        TC TT TGGGAGGC GGCACAAC AAAGC GG TA CCTTATAATTATAA AC ACTGCT
-MEXICO TCCTTTTGGGAGGCCGGCACAACAAAAGCAGGTTATCCTTATAATTATAATACTACTGCT


              6850v      6860v      6870v      6880v      6890v      6900v
-BURMA  AGCGACCAACTGCTTGTCGAGAATGCCGCCGGGCACCGGGTCGCTATTTCCACTTACACC
        AG GACCA  T CT  T GA AATGC GCCGG CA CGGGTCGC ATTTC AC TA ACC
-MEXICO AGTGACCAGATTCTGATTGAAAATGCTGCCGGCCATCGGGTCGCCATTTCAACCTATACC


              6910v      6920v      6930v      6940v      6950v      6960v
-BURMA  ACTAGCCTGGGTGCTGGTCCCGTCTCCATTTCTGCGGTTGCCGTTTTAGCCCCCCACTCT
        AC AG CT GG GC GGTCC GTC CCATTTCTGCGG  GC GTTTT GC CC C CTC
-MEXICO ACCAGGCTTGGGGCCGGTCCGGTCGCCATTTCTGCGGCCGCGGTTTTGGCTCCACGCTCC


                                        I-406.3-2-->
              6970v      6980v      6990v      7000v      7010v      7020v
-BURMA  GCGCTAGCATTGCTTGAGGATACCTTGGACTACCCTGCCCGCGCCATACTTTTGATGAT
        GC CT GC  TGCT GAGGATAC TT GA TA CC G  CG GC CA AC TTTGATGA
-MEXICO GCCCTGGCTCTGCTGGAGGATACTTTTGATTATCCGGGGCGGGCGCACACATTTGATGAC


              7030v      7040v      7050v      7060v      7070v      7080v
-BURMA  TTCTGCCCAGAGTGCCGCCCCCTTGGCCTTCAGGGCTGCGCTTTCCAGTCTACTGTCGCT
        TTCTGCCC GA TGCCGC C  T GGCCT CAGGG TG GCTTTCCAGTC ACTGTCGCT
-MEXICO TTCTGCCCTGAATGCCGCGCTTAGGCCTCCAGGGTTGTGCTTTCCAGTCAACTGTCGCT


                                  <--SG3-I
                                  <--406.3-2-I
              7090v      7100v      7110v      7120v      7130v      7140v
-BURMA  GAGCTTCAGCGCCTTAAGATGAAGGTGGGTAAAACTCGGGAGTTGTAGTTTATTTGCTTG
        GAGCT CAGCGCCTTAA T AAGGTGGGTAAAACTCGGGAGTTGTAGTTTATTTG TG
-MEXICO GAGCTCCAGCGCCTTAAAGTTAAGGTGGGTAAAACTCGGGAGTTGTAGTTTATTTGGCTG


              7150v      7160v              7170v      7180v      7190v
-BURMA  TGCCCCCCTTCTTTCTGTTGC---------TTATTTCTCATTTCTGCGTTCCGCGCTCCC
        TGCCC CCT CTT    TGC         TTATTTC  TTTCT GT CCGCGCTCCC
-MEXICO TGCCCACCTACTTATATCTGCTGATTTCCTTTATTTCCTTTTTCTCGGTCCCGCGCTCCC


        <-I ORF2             <-I trpE-C2
        v 7195
-BURMA  TGA
        TGA
-MEXICO TGA
```

Fig. 2D

```
              10        20        30        40        50        60
HEV(B)  MNNMSFAAPMGSRPCALGLFCCCSSCFCLCCPRHRPVSRLAAVVGGAAAVPAVVSGVTGL
        X::: ::::::::.::::::::::::::::::::::::::::::::::::::::::::::::
HEV(M)  MNNMWFAAPMGSPPCALGLFCCCSSCFCLCCPRHRPVSRLAAVVGGAAAVPAVVSGVTGL
              10        20        30        40        50        60


                       406.4-2
              70        80        90       100       110       120
HEV(B)  ILSPSQSPIFIQPTPSPPMSPLRPGLDLVFANPPDHSAPLGVTRPSAPPLPHVVDLPQLG
        :::::::::::::::  :.   :::::::::.:::.:.: :::: .:::::::::.:.::: :
HEV(M)  ILSPSQSPIFIQPTPLPQTLPLRPGLDLAFANQPGHLAPLGEIRPSAPPLPPVADLPQPG
              70        80        90       100       110       120


HEV(B)  PRRZ
        ::X
HEV(M)  LRRZ
```

Fig. 3

```
                10        20        30        40        50        60
HEV(B)  MRPRPILLLLLLMFLPMLPAPPPGQPSGRRRGRRSGGSGGGFWGDRVDSQPFAIPYIHPTN
        X::::.:.::.....:.::::::.::::::::::::::::::.::::::::::::::::::::
HEV(M)  MRPRPLLLLFLLFLPMLPAPPTGQPSGRRRGRRSGGTGGGFWGDRVDSQPFAIPYIHPTN
                10        20        30        40        50        60


                                                            62K
                70        80        90        100       110       120
HEV(B)  PFAPDVTAAAGAGPRVRQPARPLGSAWRDQAQRPAVASRRRPTTAGAAPLTAVAPAHDTP
        ::::::.::..:.::.::::::::::::.::::::::::::::::::.:::::::::::::.
HEV(M)  PFAPDVAAASGSGPRLRQPARPLGSTWRDQAQRPSAASRRRPATAGAAALTAVAPAHDTS
                70        80        90        100       110       120


                130       140       150       160       170       180
HEV(B)  PVPDVDSRGAILRRQYNLSTSPLTSSVATGTNLVLYAAPLSPLLPLQDGTNTHIMATEAS
        :::::::::::::::::::::::::::::::.:::::::::::::.: :::::::::::::::
HEV(M)  PVPDVDSRGAILRRQYNLSTSPLTSSVASGTNLVLYAAPLNPPLPLQDGTNTHIMATEAS
                130       140       150       160       170       180


                                        C-2
                190       200       210       220       230       240
HEV(B)  NYAQYRVARATIRYRPLVPNAVGGYAISISFWPQTTTTPTSVDMNSITSTDVRILVQPGI
        ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
HEV(M)  NYAQYRVARATIRYRPLVPNAVGGYAISISFWPQTTTTPTSVDMNSITSTDVRILVQPGI
                190       200       210       220       230       240


                250       260       270       280       290       300
HEV(B)  ASELVIPSERLHYRNQGWRSVETSGVAEEEATSGLVMLCIHGSLVNSYTNTPYTGALGLL
        :::::::::::::::::::::::::::::::::::::::::::::: :::::::::::::::
HEV(M)  ASELVIPSERLHYRNQGWRSVETSGVAEEEATSGLVMLCIHGSPVNSYTNTPYTGALGLL
                250       260       270       280       290       300


                            SG3
                310       320       330       340       350       360
HEV(B)  DFALELEFRNLTPGNTNTRVSRYSSTARHRLRRGADGTAELTTTAATRFMKDLYFTSTNG
        ::::::::::.  :::::::::::::::::.    :::::::::::::::::::::..  ::
HEV(M)  DFALELEFRNLTTCNTNTRVSRYSSTARHS-ARGADGTAELTTTAATRFMKDLHFTGLNG
                310       320       330       340       350


                370       380       390       400       410       420
HEV(B)  VGEIGRGIALTLFNLADTLLGGLPTELISSAGGQLFYSRPVVSANGEPTVKLYTSVENAQ
        :::.:::::::.:.:::::::::::::::::::::::::::::::::::::::::::::::::
HEV(M)  VGEVGRGIALTLLNLADTLLGGLPTELISSAGGQLFYSRPVVSANGEPTVKLYTSVENAQ
             360       370       380       390       400       410


                430       440       450       460       470       480
HEV(B)  QDKGIAIPHDIDLGESRVVIQDYDNQHEQDRPTPSPAPSRPFSVLRANDVLWLSLTAAEY
        ::::.::::::::::.:::::::::::::::::::::::::::::::::::::::::::::::
HEV(M)  QDKGVAIPHDIDLGDSRVVIQDYDNQHEQDRPTPSPAPSRPFSVLRANDVLWLSLTAAEY
             420       430       440       450       460       470
```

Fig. 4A

```
           490       500       510       520       530       540
HEV(B)  DQSTYGSSTGPVYVSDSVTLVNVATGAQAVARSLDWTKVTLDGRPLSTIQQYSKTFFVLP
        ::::::::::::.:::::::::::::::::::::::::.:::::::::.:..::::::::::
HEV(M)  DQSTYGSSTGPVYISDSVTLVNVATGAQAVARSLDWSKVTLDGRPLPTVEQYSKTFFVLP
          480       490       500       510       520       530


           550       560       570       580       590       600
HEV(B)  LRGKLSFWEAGTTKAGYPYNYNTTASDQLLVENAAGHRVAISTYTTSLGAGPVSISAVAV
        :::::::::::::::::::::::::::::::::.::::::::::::::::.:::::.:::.::
HEV(M)  LRGKLSFWEAGTTKAGYPYNYNTTASDQILIENAAGHRVAISTYTTRLGAGPVAISAAAV
        540       550       560       570       580       590


              406.3-2
           610       620       630       640       650
HEV(B)  LAPHSALALLEDTLDYPARAHTFDDFCPECRPLGLQGCAFQSTVAELQRLKMVGKTR
        :::.:::::::::::.:::.::::::::::::::.::::::::::::::::::.:::::
HEV(M)  LAPRALALLEDTFDYPGRAHTFDDFCPECRALGLQGCAFQSTVAELQRLKVKVGKTR
        600       610       620       630       640       650


HEV(B)  ELZ
        :::
HEV(M)  ELZ
```

Fig. 4B

Fig. 5

DPI: 1 2 3 4 5 6 7

Sol/Insol: m I S   I S   I S   I S   I S   I S   I S

110
84
47
33
24
16

Fig. 6A

DPI: Uninf 1 2 3 4 5 6 7

Sol/Insol: I S   I S   I S   I S   I S   I S   I S   I S

110 —
84 —
47 —
33 —
24 —

Fig. 6B

Inhibitors: +   −   −   −   −   −

Time (min):   0   0   30   90   180   300

Sol/Insol: I   S   I   S   I   S   I   S   I   S   I   S

110 —

84 —

47 —

33 —

Fig. 7

Time (h): 0   1   2   4   24

Sol/Insol: I S I S I S I S I S

110—

84—   —73k

                      —62k

47—

33—

Fig. 8A

Time (h): 1   2   4   24

Sol/Insol: I S I S I S I S

110—

84—   —73k

                      —62k

47—

33—
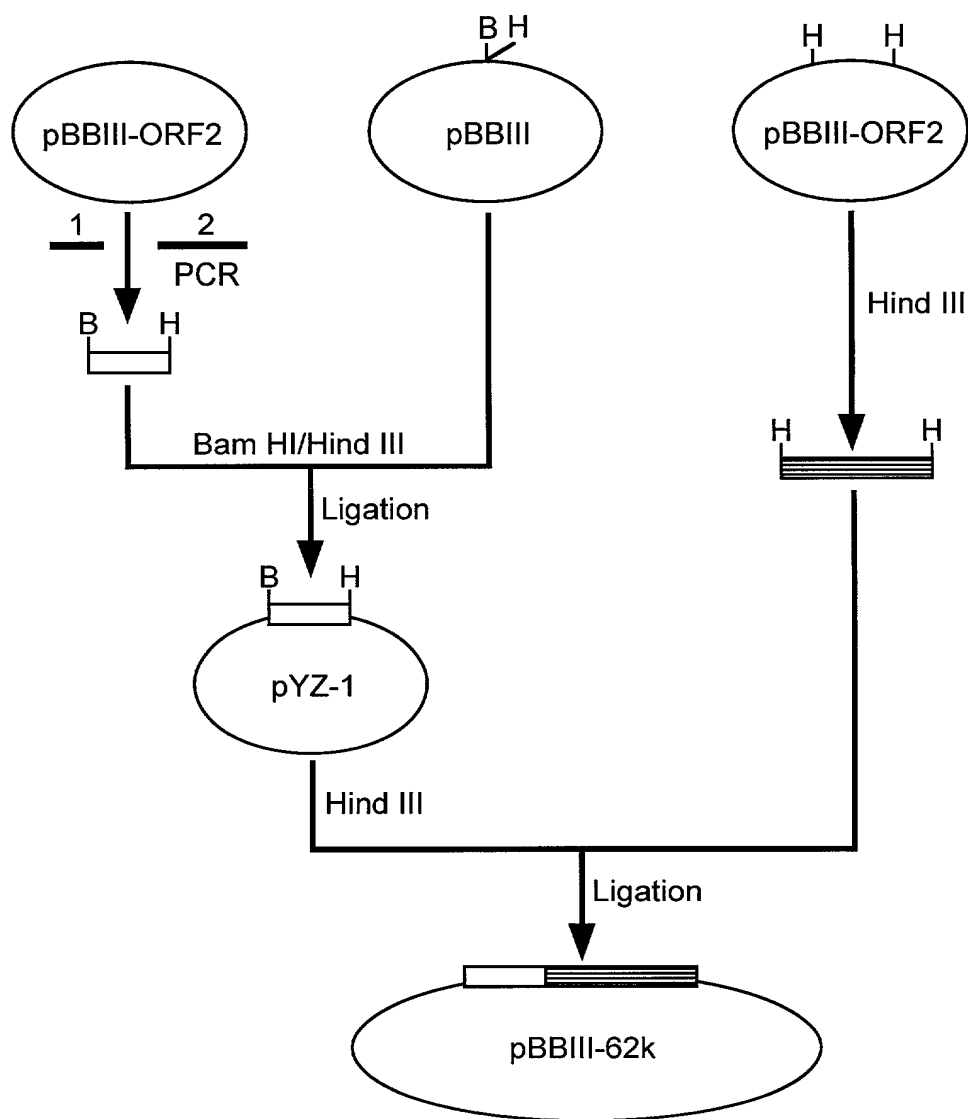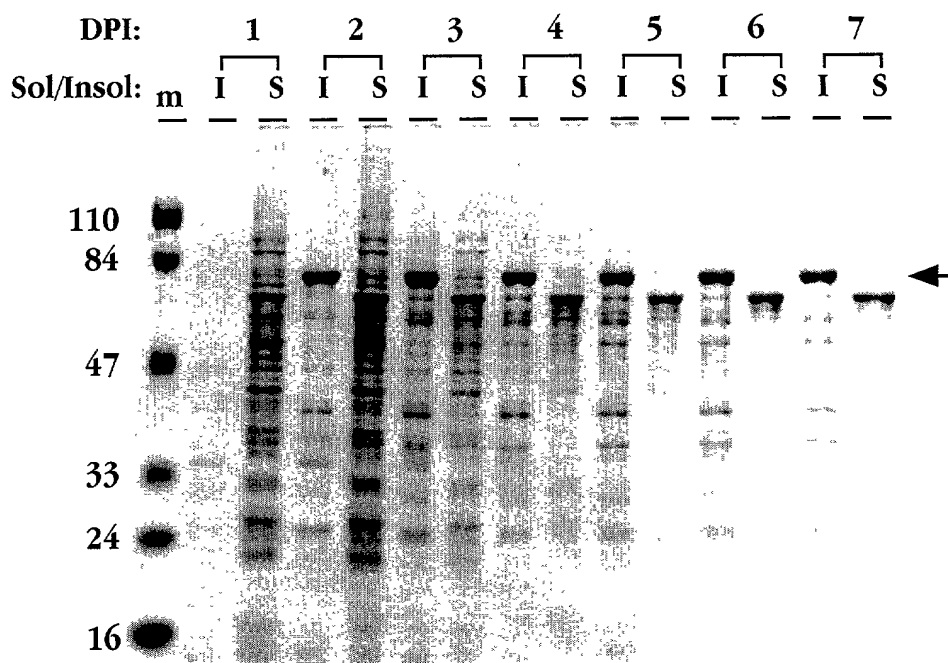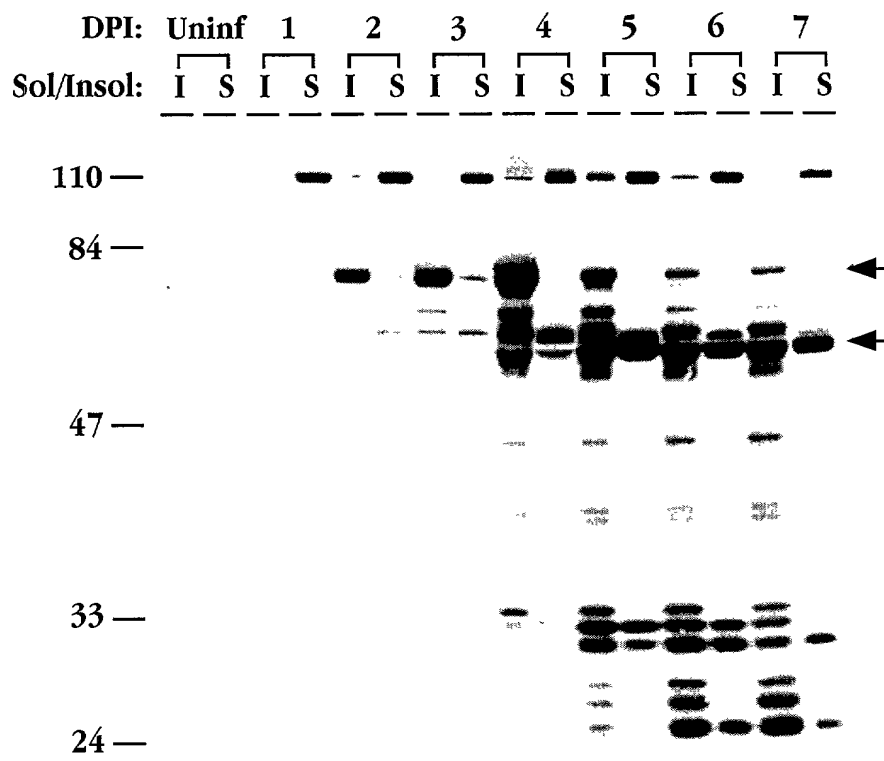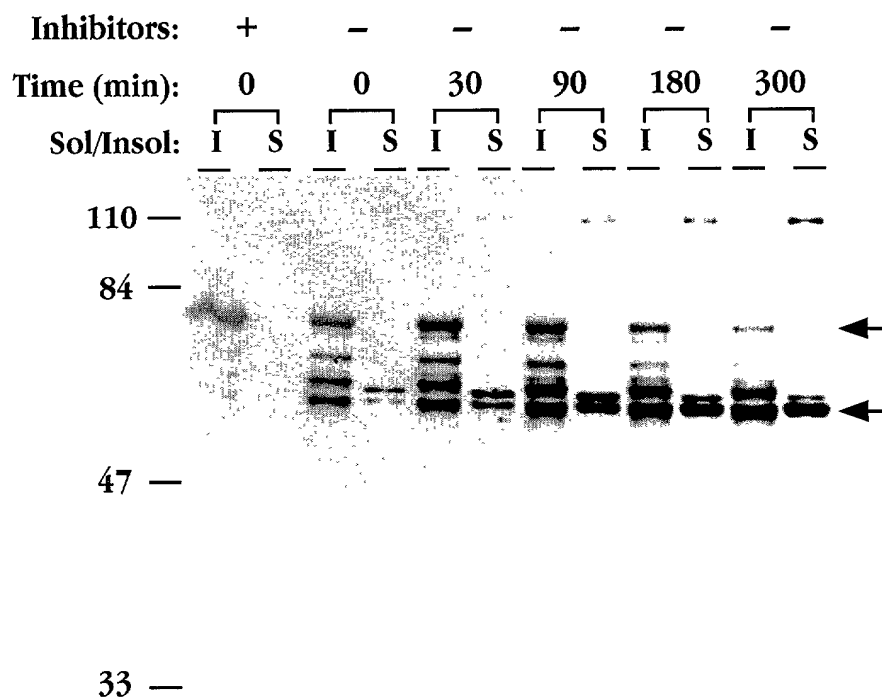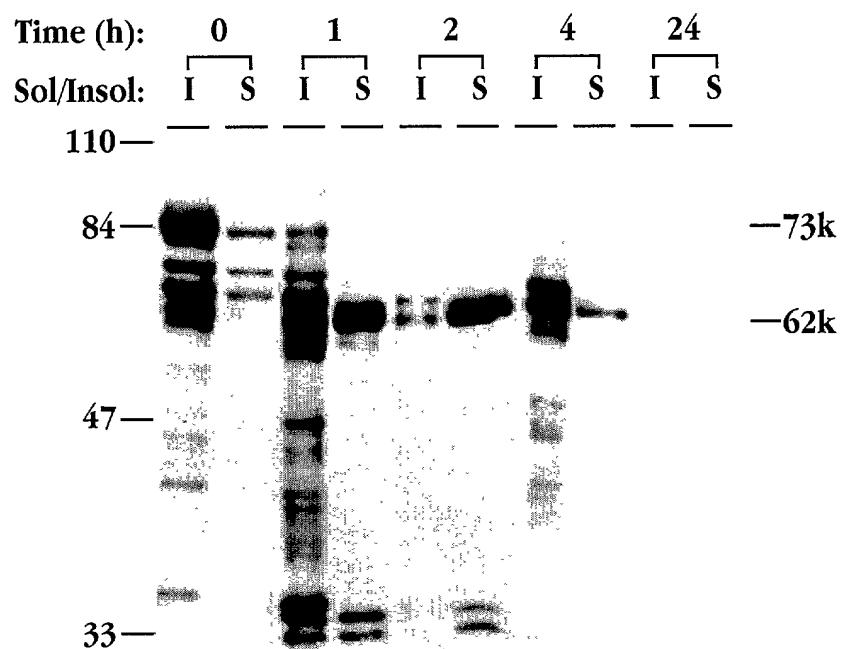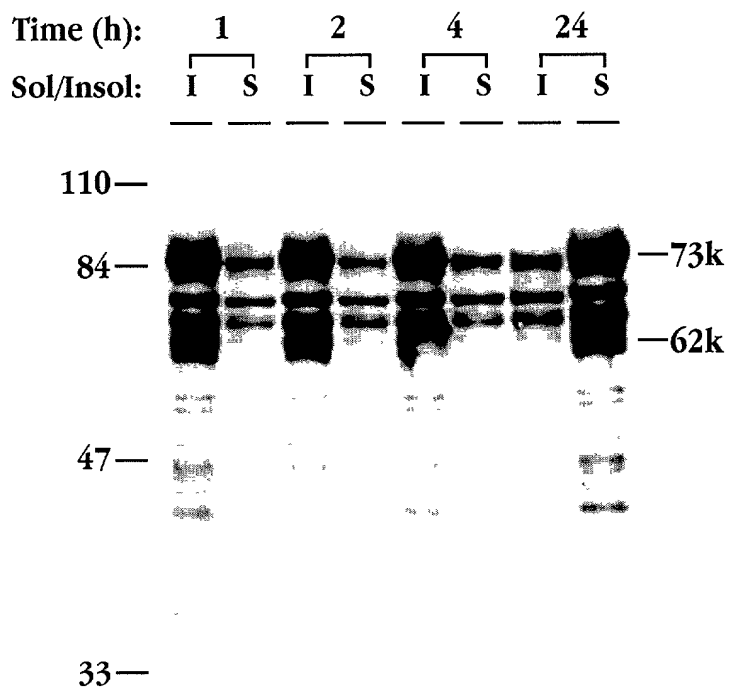
Fig. 8B
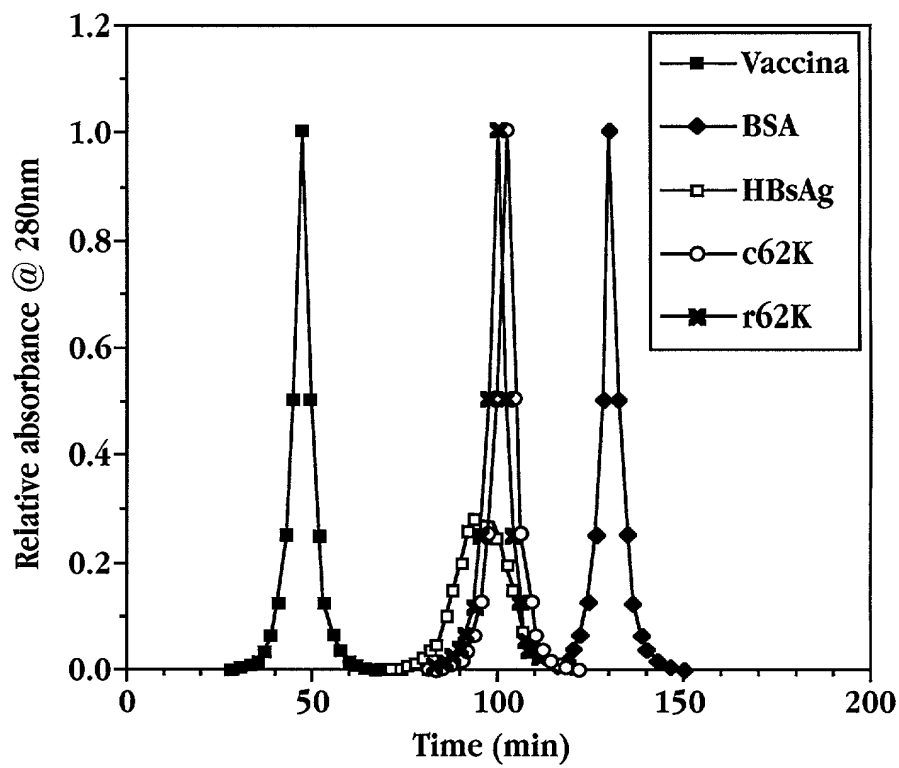
1 2 3 4 5 6 7 8 9 10

Fig. 9

1 2

SDS-PAGE

Fig. 10

60 nm

Fig. 11A

30 nm

Fig. 11B

Isolates: 1   2   3   4   5   6   7   8   9   10

Sol/Insol: I S I S I S I S S I S I S I S I S I S

110—

84—

47—

33—

24—
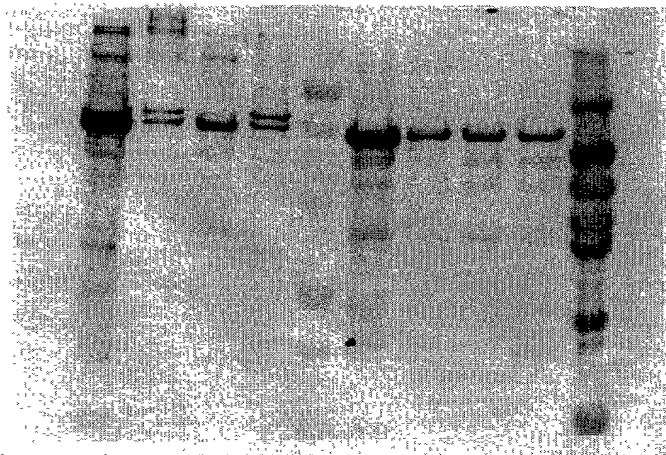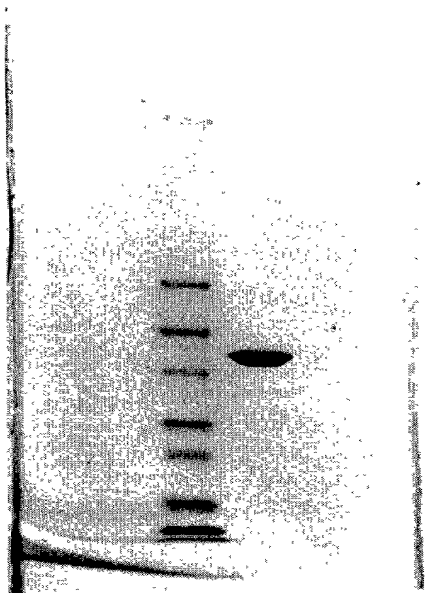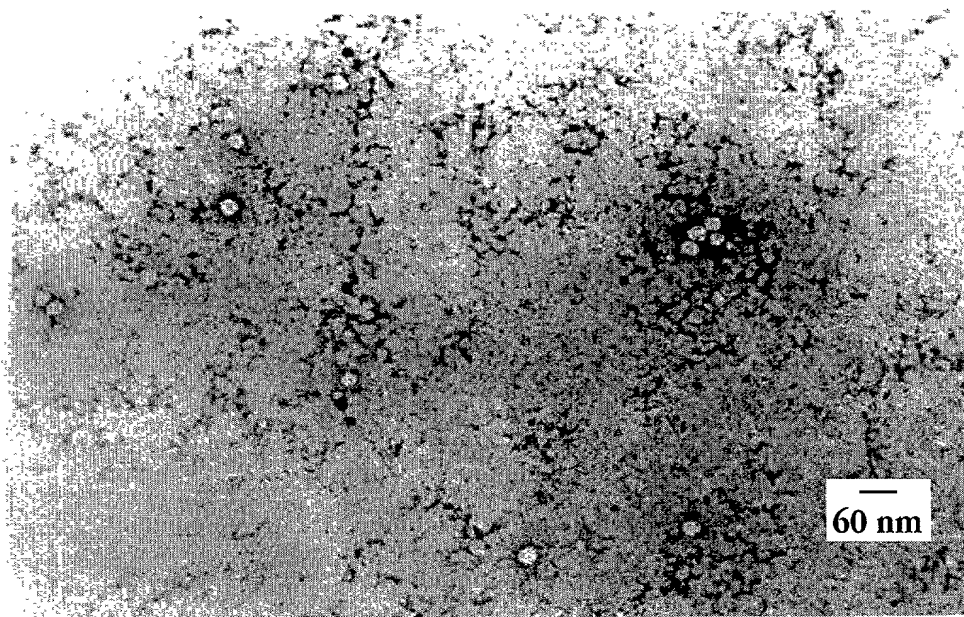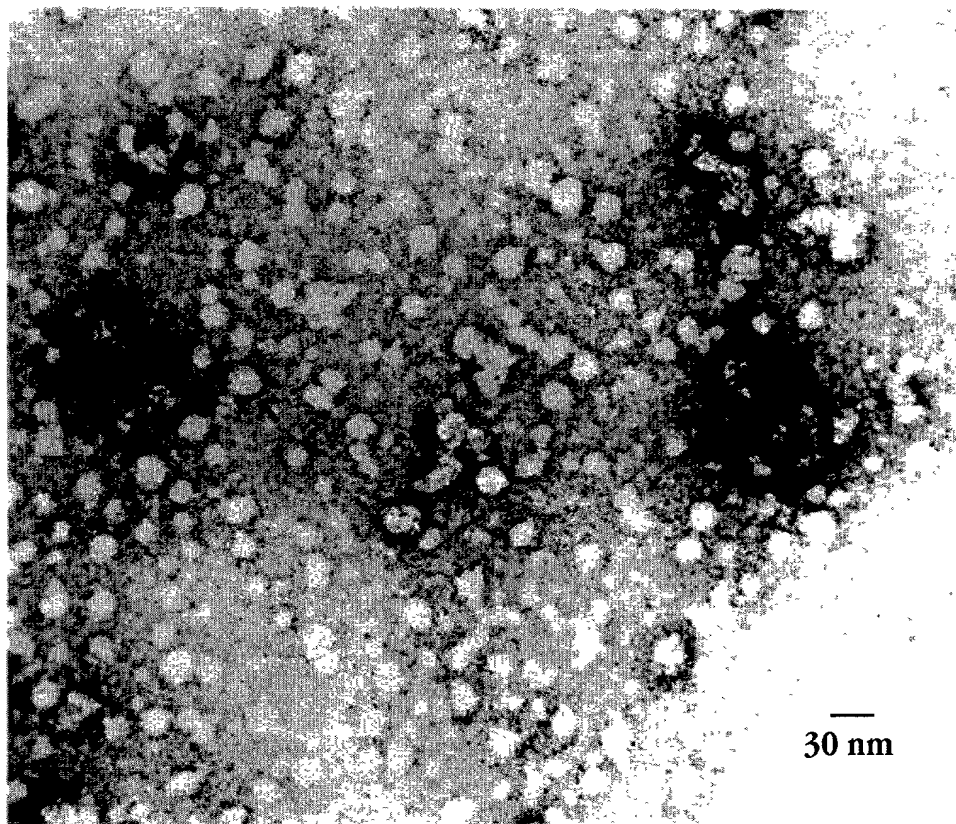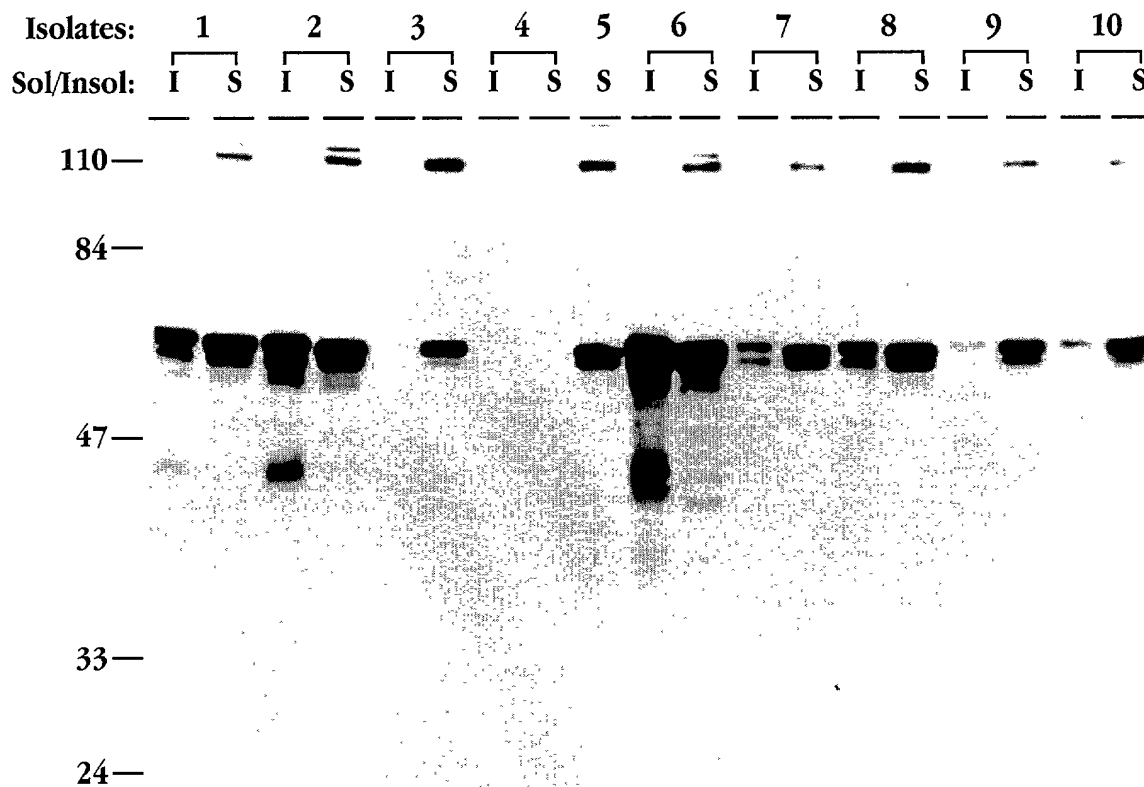
Fig. 12

Fig. 13

```
                                       10           20           30
MEXICAN(SEQ ID NO:18)    ANQPGHLAPLGEIRPSAPPLPPVADLPQPGLRR
                         ::..:.: :::: .:::::::::.::::: : ::
BURMA(SEQ ID NO:17)      ANPPDHSAPLGVTRPSAPPLPHVVDLPQLGPRR
                                       10           20           30
```
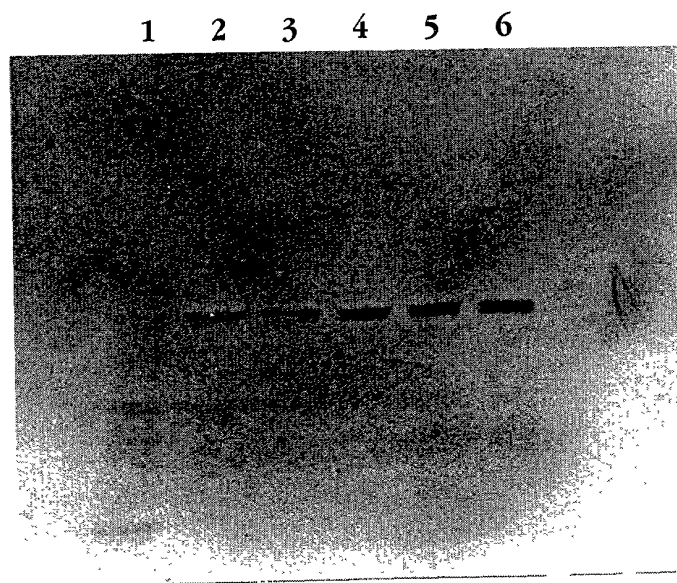
Fig. 16

1   2   3   4   5   6

Fig. 14A

1   2   3   4   5   6

Fig. 14B

Pre-NV Cynos

Challenge - NV Cynos

N

Pre-Cy9327

Pre-Cy9330

N

Challenge - Cy9327

Challenge - Cy9330

N

Uninfected Control

Infected Control

Spike

N

Harvest 14 Days PI

1 fg (pos)

10 fg (pos)

100 fg (neg)

RNA Control

Fig. 15